



Buffer Vessels & Calorifiers

Range Overview



In Stock

Available in 5-7 working days

Fast Delivery

Available in 3-4 weeks

Made to Order

Available in 5-6 weeks

At Modutherm, we are dedicated to providing **high-performance, energy-efficient heating solutions**. Our extensive product range is designed to meet the demands of residential, commercial, and industrial applications, offering **reliability, efficiency, and long-term sustainability**.

With a strong focus on innovation, we deliver advanced heating technologies, from state-of-the-art heat interface units and powerful air source heat pumps to high-efficiency commercial boilers and large-scale hot water storage solutions. Whether you're designing a new project or upgrading an existing system, our products are built to **optimise performance and energy efficiency**.



Comprehensive Support & Servicing

To further support our customers, we offer dedicated service plans designed to maintain efficiency and reliability long after installation. From annual servicing to fully inclusive maintenance contracts, our nationwide team of expert engineers provides professional aftercare and technical assistance when you need it.



Dedicated Delivery Fleet

All products are stocked and distributed from our dedicated warehouse in Basildon, Essex. Our fleet of delivery vehicles ensures your goods arrive in perfect condition, when you need them - whether that's direct to site or to your local branch.

Expert Guidance & Industry Experience

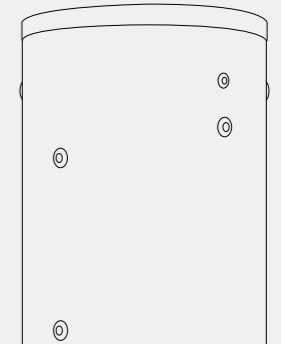
Beyond our industry-leading product range, we understand the importance of expert guidance and long-term support. Our nationwide specification sales team, backed by over 100 years of combined industry experience, works closely with consultants, contractors, and building operators to ensure the right solution is selected for every project.

Buffer Vessels

A range of Buffer Vessels / Thermal Stores are available to complement Modutherm's heating appliances, with capacities ranging from 200-8,000 litres.

- Standard Buffer Vessels
- Heat Pump Buffer Vessels
- Compact Buffer Vessels
- External Buffer Vessels

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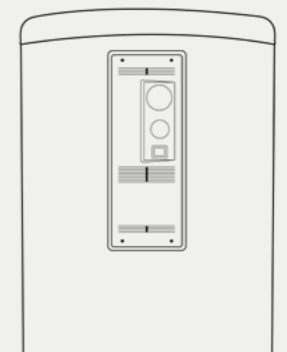


Calorifiers

Modutherm offers large scale hot water storage and production in a commercial capacity, thanks to our range of stainless steel and Polywarm® calorifiers.

- Scimitar
- Juniper PW (Polywarm®) Single Coil
- Juniper SS (Stainless Steel) Single Coil

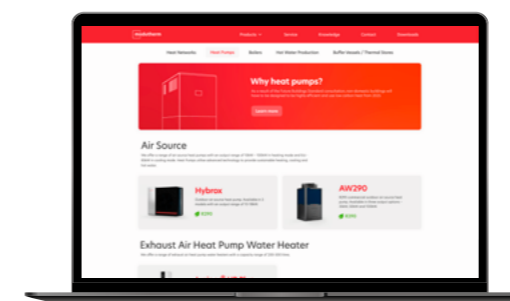
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Explore Our Full Range

This brochure provides an overview of Modutherm's comprehensive range of buffer vessels and calorifiers. Inside, you'll find key product information and technical details to help you select the right solution for your project.

For more information, including our full range of heating solutions, downloadable brochures, and technical resources, visit www.modutherm.co.uk.



Standard Buffer Vessels

- Mild steel construction
- 99°C maximum temperature
- Connection for immersion heater

Efficient storage of heated water mostly using biomass, heat pumps or solar thermal energy sources.

Insulation

Hard: High thermal insulation with ecological polyurethane hard foam.

Soft: NOFIRE® polyester fleece 100% made of recyclable material, with high thermal insulation. Fire resistance class B-s2d0 according to EN 13501. Grey PVC external lining.



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5

5 Year Tank Warranty*

Model	Volume litres	Energy Efficiency Class	Code
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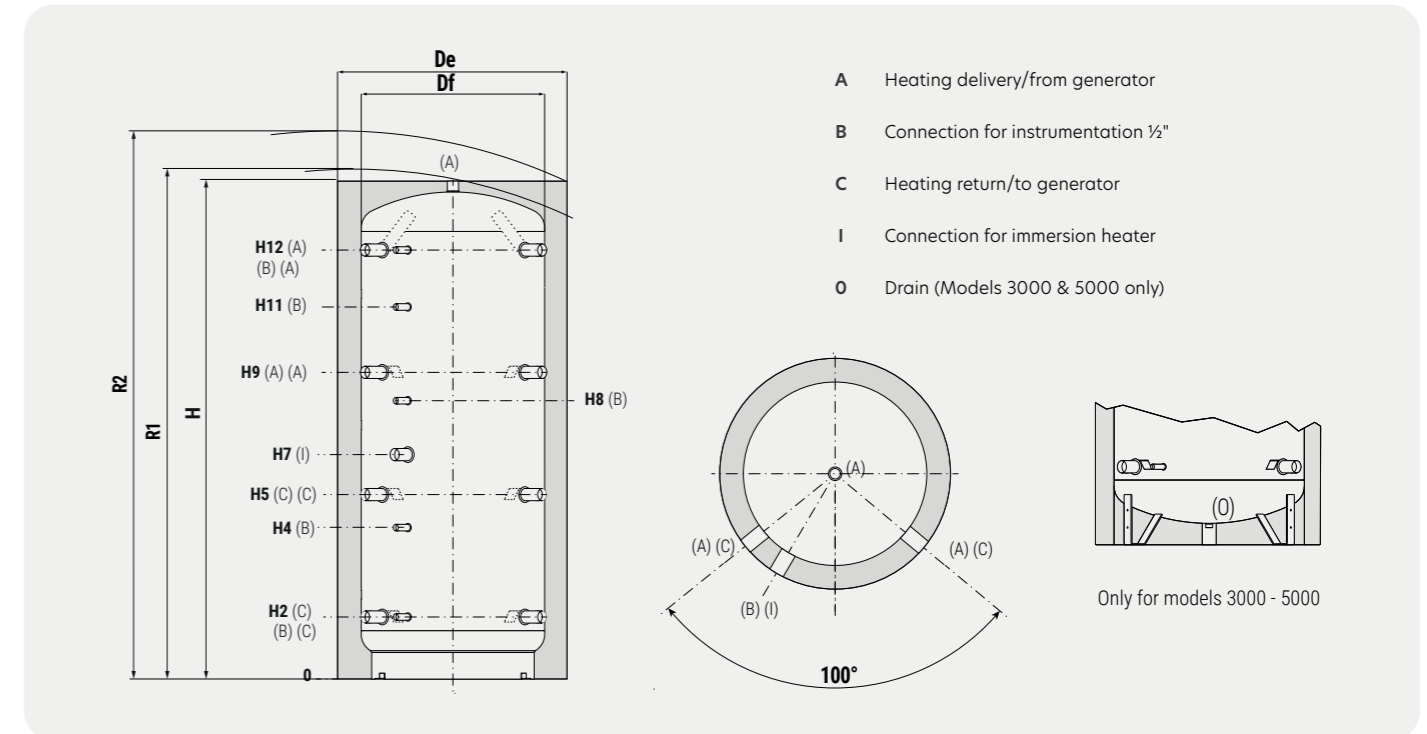
Hard Foam Insulation (Maximum pressure: 3 bar)

200	180	B	PBV-200
300	279	B	PBV-300
500	478	C	PBV-500
600	560	C	PBV-600
1250	1248	B	PBV-1250

Dismountable Soft Fleece Insulation (Maximum pressure: 3 bar)

750	717	C	PBV-750
800	805	C	PBV-800
1000	946	C	PBV-1000
1500	1454	C	PBV-1500
2000	1973	C	PBV-2000
3000	2915	-	PBV-3000
5000	4985	-	PBV-5000

Dimensions



Model	Volume litres	Soft Fleece Insulation		Hard Foam Insulation	H	R1	R2	H2	H4
		Df	De	De					
200	180	-	-	550	1299	-	1415	218	430
300	279	-	-	650	1340	-	1495	232	444
500	478	-	-	750	1620	-	1790	247	533
600	560	-	-	750	1870	-	2020	247	582
750	717	790	1010	950	1658	1710	1915	265	584
800	805	790	1010	950	1840	1890	2075	265	584
1000	946	790	1010	950	2130	2175	2340	265	656
1250	1248	-	-	1050	2201	-	2445	313	705
1500	1454	950	1210	-	2250	2305	2510	313	736
2000	1973	1100	1250	-	2320	2390	2665	347	770
3000	2915	1250	1450	-	2814	2890	3170	556	1017
5000	4985	1600	1800	-	2929	3045	3445	586	1047

Model	Volume litres	H5	H7	H8	H9	H11	H12	A - C - I		O
								Female Connections		
200	180	500	576	711	782	871	1064	1 1/2"	-	
300	279	514	590	725	796	885	1078	1 1/2"	-	
500	478	629	841	930	1011	1231	1343	1 1/2"	-	
600	560	695	915	1060	1144	1382	1593	1 1/2"	-	
750	717	630	823	938	995	1180	1371	1 1/2"	-	
800	805	690	823	988	1115	1332	1541	1 1/2"	-	
1000	946	787	998	1188	1309	1588	1831	1 1/2"	-	
1250	1248	835	986	1168	1357	1568	1879	1 1/2"	-	
1500	1454	845	1061	1286	1377	1653	1909	1 1/2"	-	
2000	1973	879	1060	1300	1411	1687	1943	1 1/2"	-	
3000	2915	1071	1693	1879	1786	2140	2402	2"	1"	
5000	4985	1101	1691	1889	1816	2159	2432	2"	2"	

Heat Pump Buffer Vessels

- Mild steel construction
- 7 bar maximum working pressure
- 90°C maximum temperature
- 5x 1/2" sensor points
- 1 1/2" connection for immersion heater

Insulation
 Anti-condense for cold functioning (20mm) & Fleece for heating insulation (110mm).
 Grey PVC external lining.

Efficient storage of water using heat pumps, for heating or cooling.



In Stock

Available in 5-7 working days

Made to Order

Available in 5-6 weeks

5

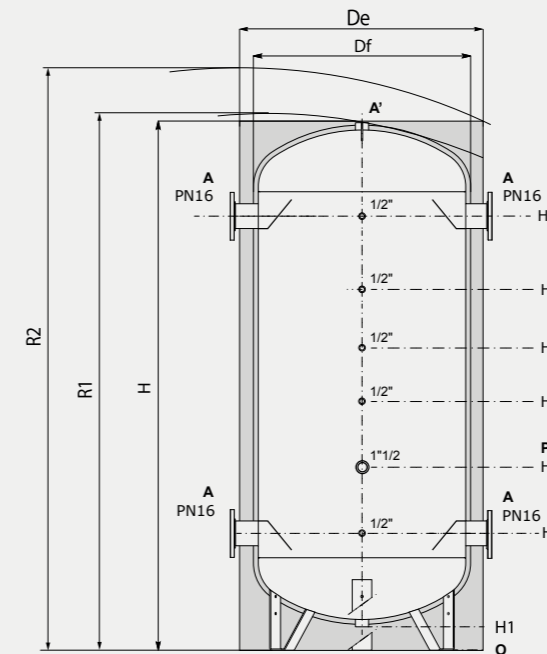
5 Year Tank Warranty*

Model	Volume litres	Energy Efficiency Class	Code
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Dismountable Soft Fleece Insulation
 (Maximum working pressure: 7 bar)

500	478	C	BVS-500
800	758	C	BVS-800
1000	987	C	BVS-1000
1500-C	1528	C	BVS-1500-C
1500	1435	C	BVS-1500
2000	1973	C	BVS-2000
2500	2294	-	BVS-2500
3000	2988	-	BVS-3000
4000	3914	-	BVS-4000
5000	4970	-	BVS-5000

Dimensions



- A** Flanged connection
- O** Drain
- P** 1 1/2" connection for immersion heater

Model	Volume litres	Weight kg	Df	De	H	R1	R2	H1	H2	H3
500	478	77	650	910	1880	1940	2030	130	441	741
800	758	105	750	1010	2113	2240	2330	120	413	813
1000	987	141	850	1110	2232	2300	2400	105	479	879
1500	1435	200	950	1250	2492	2650	2760	130	537	927
1500-C	1528	222	1100	1400	2038	2214	2474	104	548	713
2000	1973	233	1100	1400	2537	2750	2870	105	547	710
2500	2294	397	1250	1390	2324	2650	2700	143	682	919
3000	2988	432	1440	1540	2378	2790	2840	127	711	998
4000	3914	494	1600	1740	2436	-	-	105	719	956
5000	4970	714	1600	1740	2936	-	-	105	719	1006

Model	Volume litres	Weight kg	H4	H5	H6	H7	O	A'	A
500	478	77	928.5	1116	1303.5	1491	1 1/4"	1 1/4"	DN80 PN16
800	758	105	1038	1263	1488	1713	1 1/4"	1 1/4"	DN80 PN16
1000	987	141	1104	1329	1554	1779	1 1/2"	1 1/2"	DN100 PN16
1500	1435	200	1197	1467	1737	1967	2"	2"	DN150 PN16
1500-C	1528	222	878	1078	1278	1478	2"	2"	DN150 PN16
2000	1973	233	980	1250	1520	1750	2"	2"	DN150 PN16
2500	2294	397	1126	1336	1546	1756	1"	2"	DN150 PN16
3000	2988	432	-	-	1448	1785	1"	2"	DN150 PN16
4000	3914	494	1163	1373	1583	1793	1"	2"	DN150 PN16
5000	4970	714	1291	1641	1991	2293	1"	2"	DN150 PN16

Compact Buffer Vessels

- Mild steel construction
- 99°C maximum temperature
- Suitable for low-ceiling rooms
- Easy to transport

Efficient storage of heated water mostly using biomass, heat pumps or solar thermal energy sources.

Insulation

NOFIRE® polyester fleece 100% made of recyclable material, with high thermal insulation. Fire resistance class B-s2d0 according to EN 13501. Grey PVC external lining.



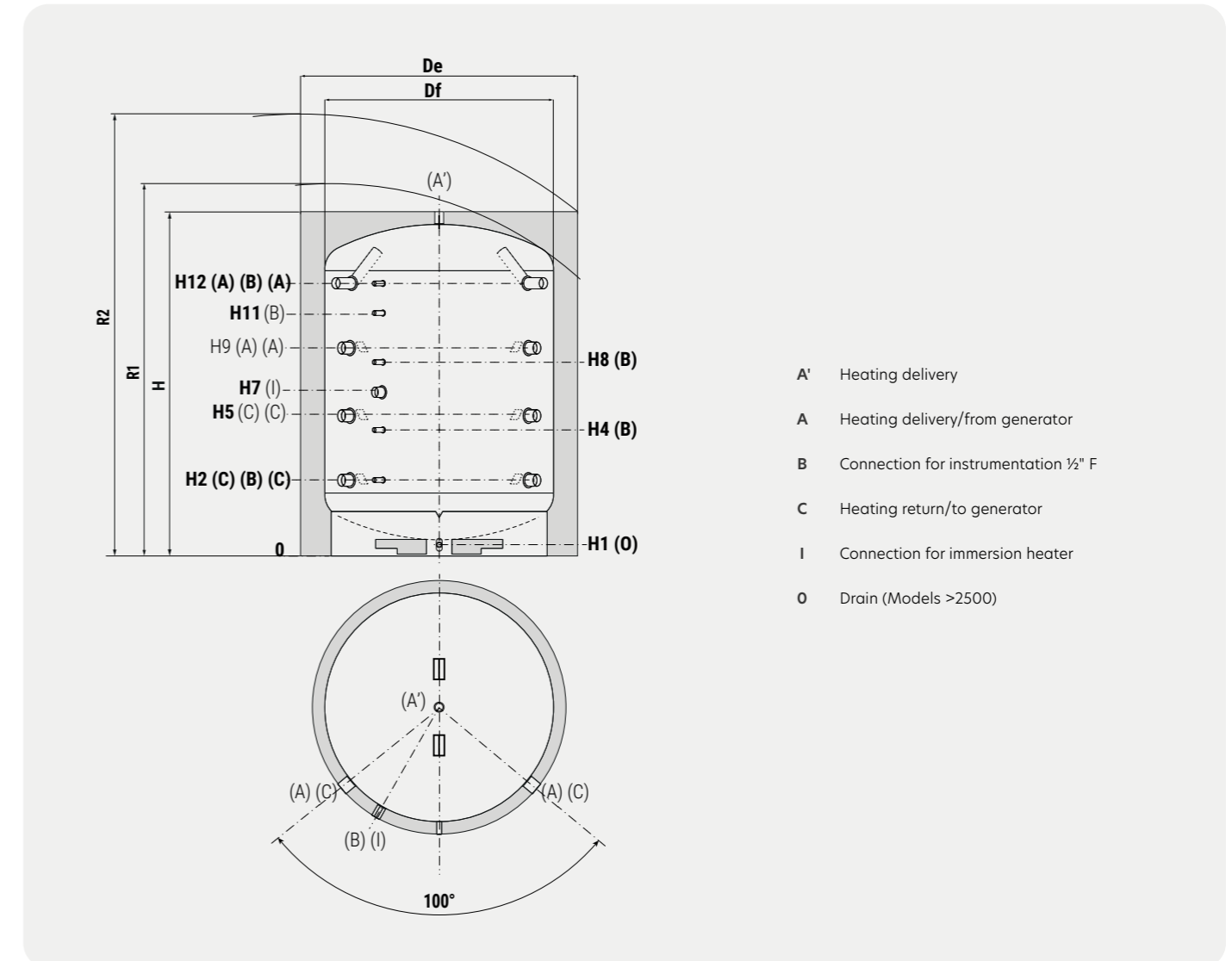
Fast Delivery
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Made to Order
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5 Year Tank Warranty*

Model	Volume litres	Code
Dismountable Soft Fleece Insulation (Maximum pressure: 4 bar)		
2500	2306	BVC-2500
3000	3017	BVC-3000
4000	3986	BVC-4000
4500	4411	BVC-4500
5000	5042	BVC-5000
6000	5672	BVC-6000
8000	7564	BVC-8000

Dimensions



Model	Volume litres	Df	De	H	R1	R2	H1	H2	H4	H5
2500	2306	1250	1450	2351	2465	2770	140	556	886	996
3000	3017	1500	1700	2180	2372	2770	109.5	567	841	932
4000	3986	1600	1800	2456	2643	3050	94.5	574	910	1022
4500	4411	1800	2000	2230	2565	3000	90	582	856	947
5000	5042	1800	2000	2480	2758	3190	90	583	919	1031
6000	5672	1800	2000	2730	2960	3390	90	605	1005	1114
8000	7564	1800	2000	3480	3650	4020	90	606	1066	1372

Model	Volume litres	H7	H8	H9 mm	H11	H12	A - C	A' - I	o
2500	2306	1051	1216	1436	1546	1876	1½"	1½"	-
3000	3017	1252	1115	1297	1389	1662	2"	2"	1"
4000	3986	1414	1246	1470	1582	1918	2"	2"	1"
4500	4411	1267	1130	1312	1404	1677	2"	2"	1"
5000	5042	1423	1255	1479	1591	1927	2"	2"	1"
6000	5672	1295	1535	1646	1922	2155	3"	2"	1"
8000	7564	1526	1986	2138	2446	2904	3"	2"	1"

External Buffer Vessels

500-2000L

- Mild steel construction
- 7 bar maximum working pressure
- 90°C maximum temperature
- 5x 1/2" sensor points
- 1 1/2" connection for immersion heater
- Large screwed connections ideal for heat pumps
- Suitable for outdoor installation

Efficient storage of water using heat pumps, for heating or cooling.

Insulation

High thermal insulation with ecological polyurethane hard foam. Galvanised and painted metallic cover.



In Stock

Available in 5-7 working days

Made to Order

Available in 5-6 weeks

5

5 Year Tank Warranty*

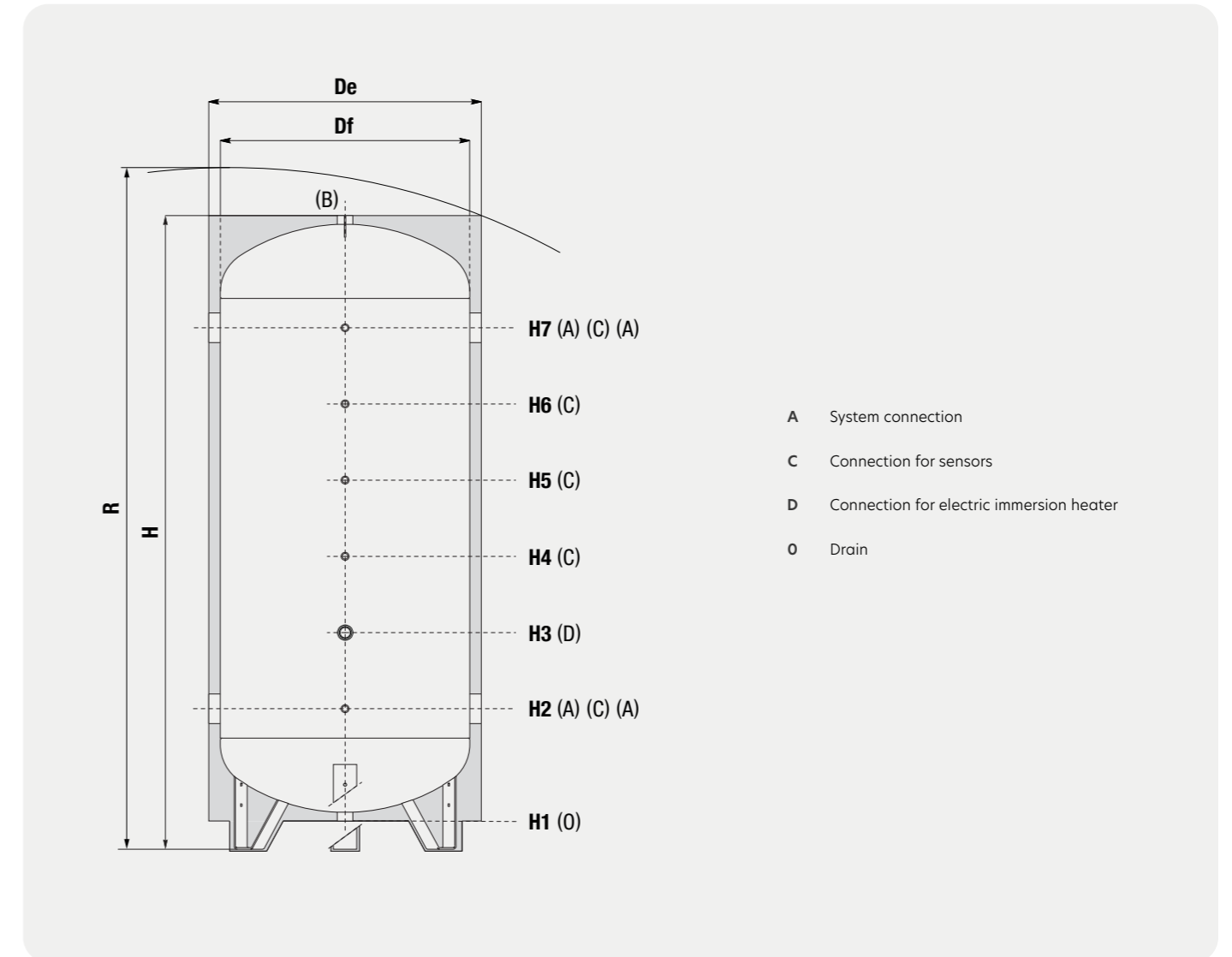
Model	Volume litres	Energy Efficiency Class	Code
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Galvanised and painted metallic cover
(Maximum working pressure: 7 bar)

500	501	C	EBV-500
800	788	C	EBV-800
1000	1034	C	EBV-1000
1500	1432	C	EBV-1500
2000	1970	C	EBV-2000

Dimensions

Galvanised and painted metallic cover



Model	Volume litres	Weight kg	De	Df	R	H	H1	H2	H3	H4
500	501	101	752	650	1945	1796	80	404	614	824
800	788	147	850	750	2270	2102	80	430	690	950
1000	1034	170	950	850	2370	2188	80	503	755	1007
1500	1432	183	1100	950	2615	2368	100	471	771	1081
2000	1970	219	1300	1100	2770	2438	100	506	806	1116

Model	Volume litres	Weight kg	H5	H6	H7	B / O	A	C	D
500	501	101	1034	1244	1454	1 1/4"	3"	1/2"	1 1/2"
800	788	147	1210	1470	1730	1 1/4"	3"	1/2"	1 1/2"
1000	1034	170	1259	1511	1763	1 1/2"	4"	1/2"	1 1/2"
1500	1432	183	1381	1681	1981	2"	4"	1/2"	1 1/2"
2000	1970	219	1416	1716	2016	2"	4"	1/2"	1 1/2"

External Buffer Vessels

2500-5000L

- Mild steel construction
- 7 bar maximum working pressure
- 90°C maximum temperature
- 5x ½" sensor points
- 1½" connection for immersion heater
- Large flanged connections ideal for heat pumps
- Baffle plates
- Suitable for outdoor installation

Efficient storage of water using heat pumps, for heating or cooling.

Insulation

One layer of anti-condensation insulation plus a second layer of polyester fibre, all covered by an aluminium external cover.
Dismountable aluminium external cover.



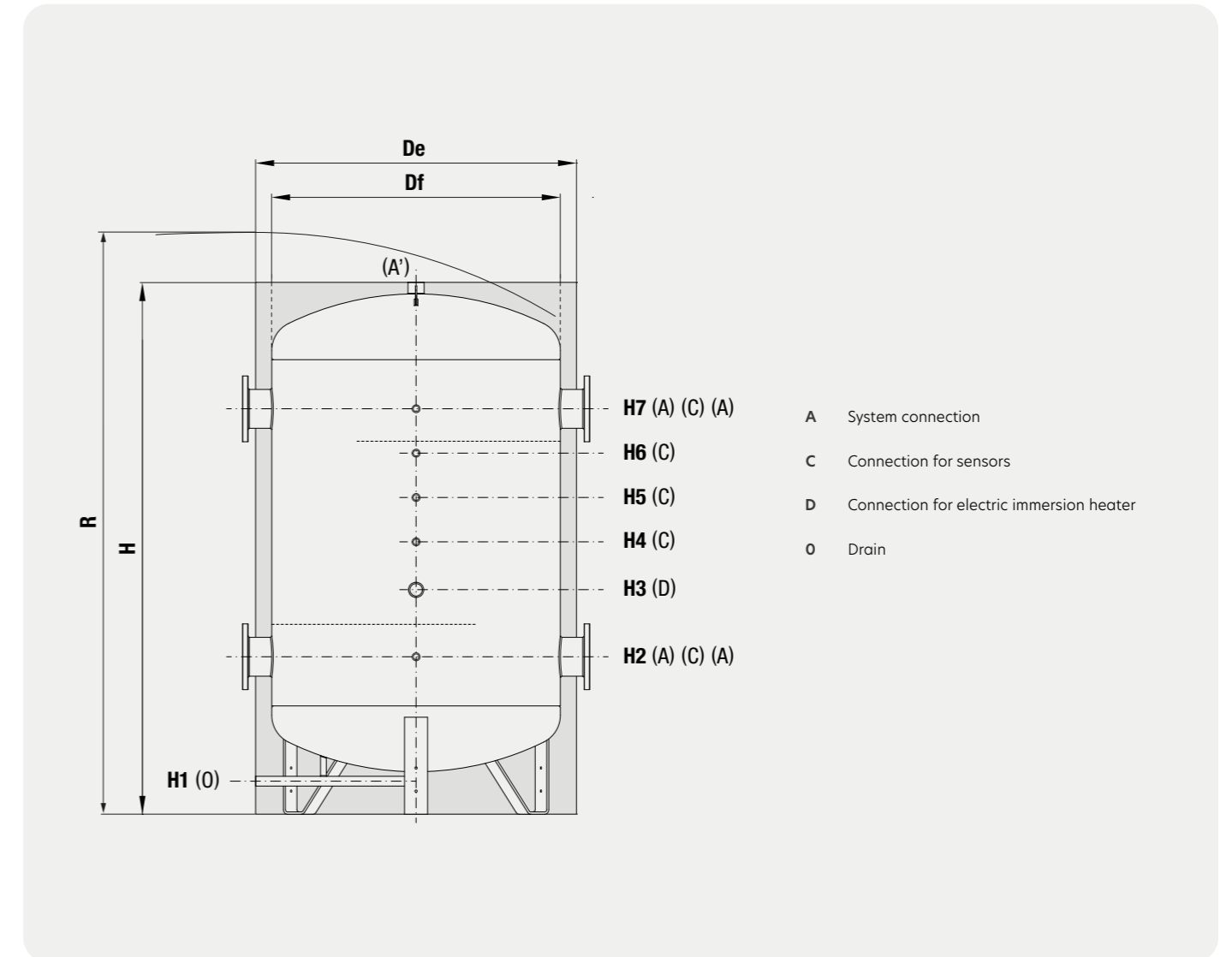
Made to Order
Available in 5-6 weeks

2 Year Tank Warranty*

Model	Volume litres	Code
Aluminium external cover (Maximum working pressure: 7 bar)		
2500	2294	EBV-2500
3000	2988	EBV-3000
4000	3914	EBV-4000
5000	4970	EBV-5000

Dimensions

Aluminium external cover



Model	Volume litres	Weight kg	De	Df	R	H	H1	H2	H3	H4
mm										
2500	2294	397	1390	1250	2630	2304	143	682	969	1154
3000	2988	432	1540	1400	2770	2378	127	711	908	1118
4000	3914	494	1740	1600	2880	2406	105	719	926	1133
5000	4970	714	1740	1600	3360	2936	105	719	1006	1291

Model	Volume litres	Weight kg	H5	H6	H7	A'	Female Connections			
2500	2294	397	1339	1524	1756	2"	DN150 PN16	½"	1½"	1"
3000	2988	432	1358	1598	1785	2"	DN150 PN16	½"	1½"	1"
4000	3914	494	1343	1553	1763	2"	DN150 PN16	½"	1½"	1"
5000	4970	714	1641	1991	2293	2"	DN150 PN16	½"	1½"	1"

Scimitar®

- 316L stainless steel construction
- 4 bar maximum working pressure
- 90°C maximum temperature
- Connection for immersion heater
2.5kW single phase
7.5kW three phase (500 model only)
- Tank-in-tank design
- WRAS approved unvented kits
- Anti-legionella design
- Self-cleaning
- Maintenance-free

316L grade tank-in-tank stainless steel indirect calorifiers, offering domestic hot water production.

Insulation

High density injected rigid polyurethane foam.
White PVC external lining, with an additional removable padded vinyl jacket.



In Stock

Available in 5-7 working days

5

5 Year Tank Warranty*

2

2 Year Warranty*

ErP

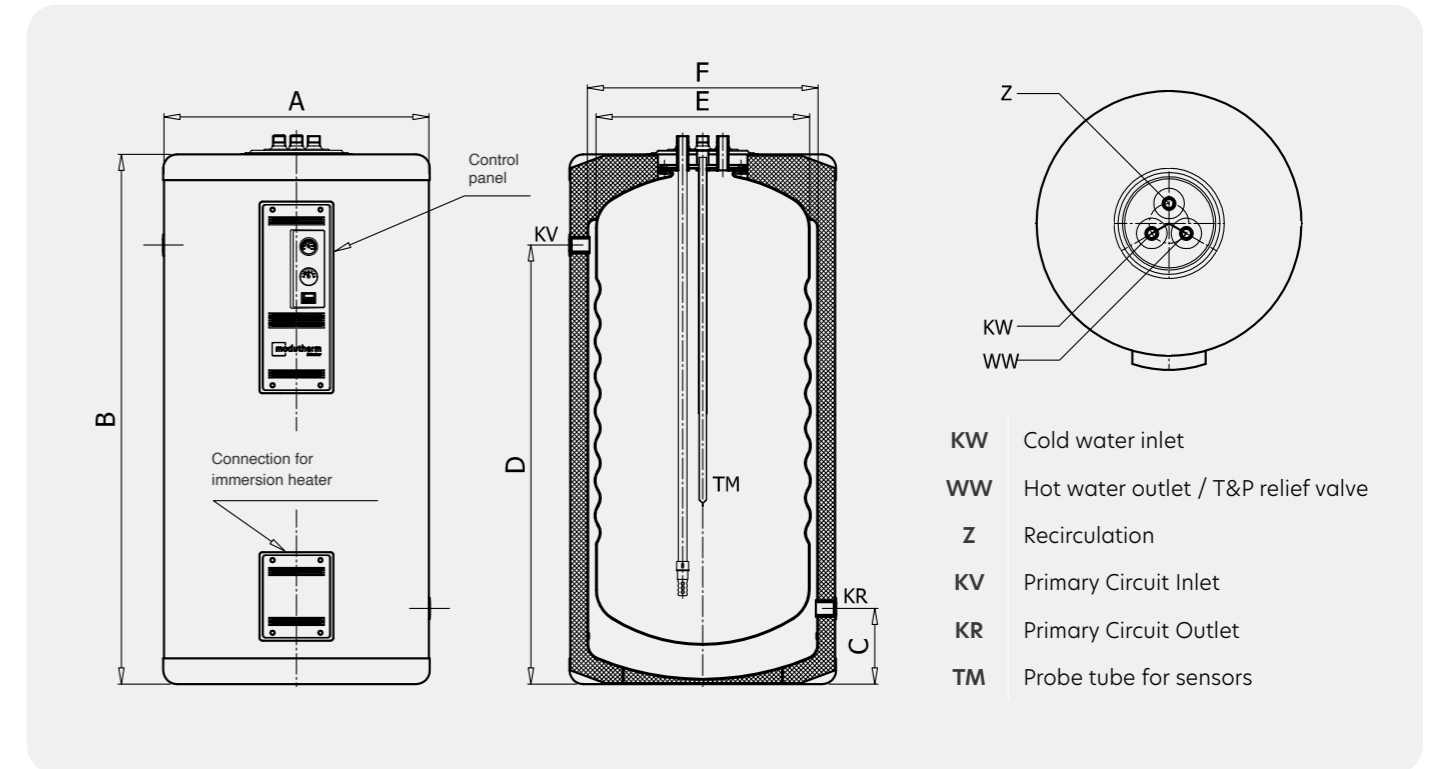
ErP Part L Compliant

Model	DHW Volume litres	Energy Efficiency Class	Code	Unvented Kit Code
200	193	B	SCIMITAR200	NSUV200
300	286	C	SCIMITAR300	NSUV300
500	462	C	SCIMITAR500	NSUV500

[View Performance Data](#)

To view the performance data, please click above:

Dimensions



		200	300	500
Empty weight	kg	78	106	151
Full weight	kg	327	457	721
Cold water inlet (KW)		¾" M		1" M
DHW outlet-T&P relief valve connection (WW)		¾" M		1" M
Recirculation (Z)		¾" M		1" M
Primary circuit inlet/outlet (KV/KR)			1" F	1½" F
T&P relief valve			¾" M	
External diameter (A)	mm	620		770
Total height (B)	mm	1239	1724	1730
Primary return (C)	mm	182		192
Primary flow (D)	mm	1027	1512	1493

Optional immersion heater

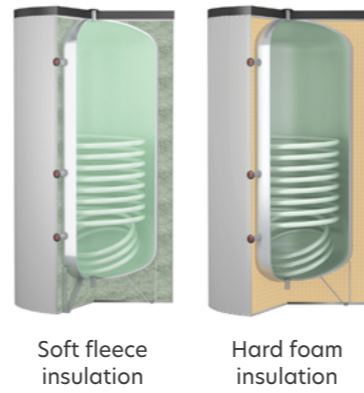
Model	Volume of water heated by the electric immersion heater litres	Heat up time from Δ 50°C with immersion heater hours	
		SINGLE PHASE 2.5kW SCIMITAR-EE	THREE PHASE 7kW SCIMITAR-EE-7
200	193	5.8	-
300	286	8.2	-
500	462	13.3	4.7

Juniper® PW Single Coil

- Mild steel construction
- 8/10 bar maximum working pressure
- 90°C maximum temperature
- 1½" connection for immersion heater 1.5-3kW single phase, 6-12kW three phase
- WRAS approved unvented kits
- WRAS approved Polywarm® coating
- Cathode protection
- Control/limit thermostat

Insulation

Hard (500L) - High thermal insulation with ecological polyurethane hard foam.
Soft (800-3000L) - NOFIRE® polyester fleece 100% made of recycled material, with high thermal insulation.
 Fire resistance class B-s2d0 according to EN 13501.
 Grey PVC external lining.



In Stock
Available in 5-7 working days

5 5 Year Tank Warranty*

2 2 Year Warranty*

WRAS WRAS Approved

ErP ErP Part L Compliant

Model	Volume litres	Energy Efficiency Class	Code	Unvented Kit Code
500	498	C	JNPW500SC	JUV500
800	789	C	JNPW800SC	JUV800
1000	1038	C	JNPW1000SC	JUV1000
1500	1443	C	JNPW1500SC	JUV1500

The 500 litre unit is supplied with a rigid hard foam insulation. All other capacities are supplied with a soft fleece insulation.

[View Performance Data](#)

To view the performance data, please click above:

Full Range



Single Coil

Polywarm® single coil. Available in a range of 4 models from 500-1500 litres.



Twin Coil

Polywarm® twin coil. Available in a range of 4 models from 500-1500 litres.



Storage Vessel

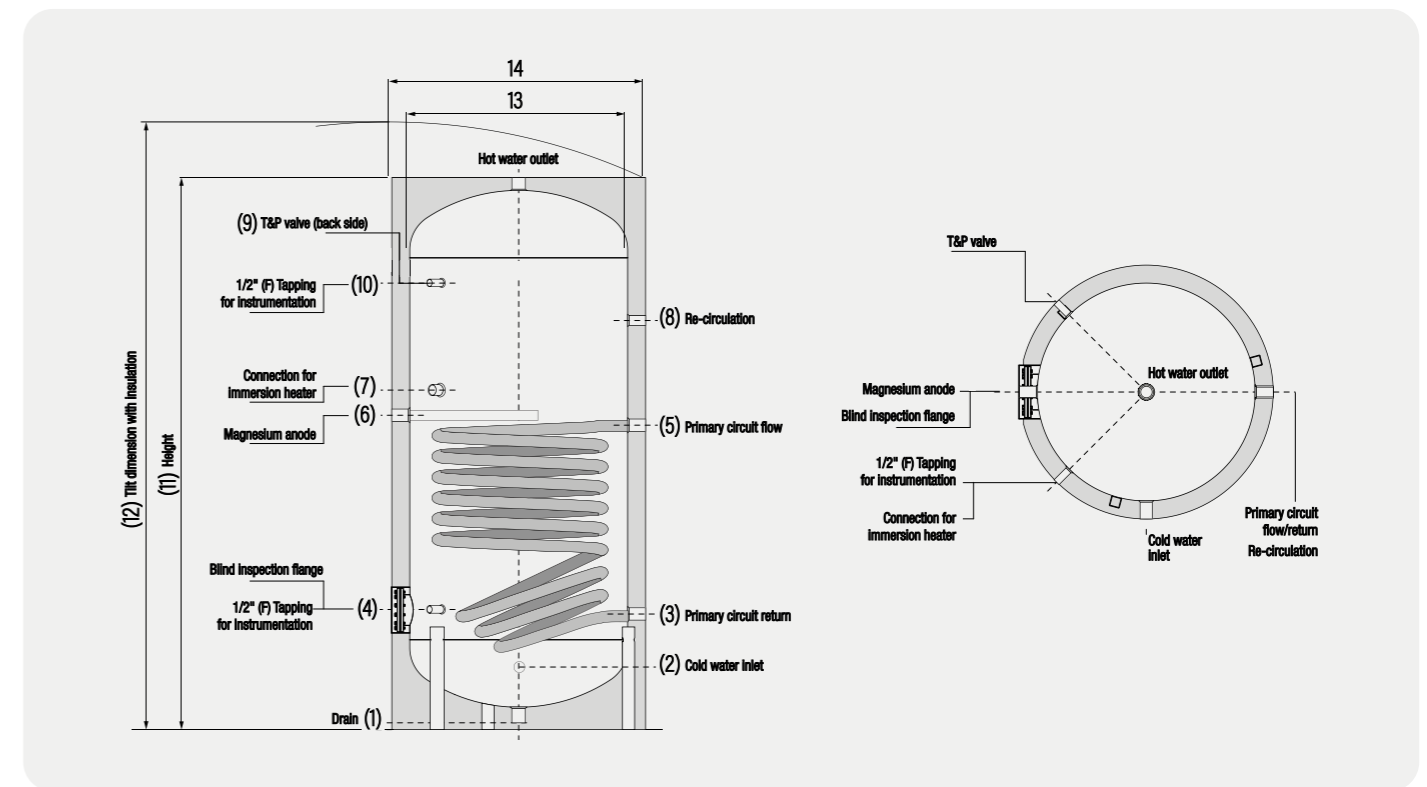
Polywarm® storage vessel. Available in a range of 7 models from 500-3000 litres.

[View Full Range](#)

To view the full Juniper PW range, including the Twin Coil or Storage Vessel, please click above:

Dimensions

All dimensions are distances from the floor, except for 13 & 14 which are lateral dimensions.



Model	1	2	3	4	5	6	7	8	9	10	11	12	13	14
	(mm)													
500	71	271	346	411	1036	1076	1144	1331	1476	1476	1786	1945	-	750
800	101	493	428	483	1181	1243	1308	1598	1788	1788	2162	2375	750	970
1000	89	524	439	499	1279	1309	1364	1584	1819	1819	2217	2445	850	1070
1500	109	450	425	575	1403	1450	1515	1825	2065	2065	2440	2730	950	1210

	500	800	1000	1500
Drain	1¼"		¾"	1"
Cold water inlet		1"	1¼"	1½"
Blind inspection flange (internal/external)	øi120/øe180	øi170/øe240	øi170/øe240	øi300/øe380
Connection for immersion heater	1½"		2"	
Primary circuit return/flow			1¼"	
Re-circulation			1"	
T&P valve			1"	
Domestic hot water outlet		1¼"	1½"	2"
Connection for magnesium anode			1¼"	

Optional immersion heater

Model	Volume of water heated by the electric immersion heater litres	SINGLE PHASE						THREE PHASE	
		1.5kW JELEM-01	2kW JELEM-02	3kW ELEM-03	6kW ELEM-06	9kW ELEM-09	12kW ELEM-12		
		Heat up time from 10°C to 45°C with immersion heater minutes							
500	152	272	204	136	68	41	-		
800	279	500	375	250	125	83	62		
1000	345	618	464	309	155	103	77		
1500	510	914	686	457	229	152	110		

Juniper® SS

Single Coil

- 316L stainless steel construction
- 7 bar maximum working pressure
- 90°C maximum temperature
- 1½" connection for immersion heater 1.5-3kW single phase, 6-12kW three phase
- WRAS approved unvented kits
- Cathode protection
- Control/limit thermostat

Insulation

Hard (500L) - High thermal insulation with ecological polyurethane hard foam.

Soft (800-3000L) - NOFIRE® polyester fleece 100% made of recycled material, with high thermal insulation.

Fire resistance class B-s2d0 according to EN 13501.

Grey PVC external lining.



Soft fleece insulation

Hard foam insulation

In Stock

Available in 5-7 working days

5

5 Year Tank Warranty*

2

2 Year Warranty*

ErP

ErP Part L Compliant

Model	Volume litres	Energy Efficiency Class	Code	Unvented Kit Code
500	503	C	JNSS500SC	JUV500
800	759	C	JNSS800SC	JUV800
1000	902	C	JNSS1000SC	JUV1000
1500	1399	C	JNSS1500SC	JUV1500
2000	2018	C	JNSS2000SC	JUV2000

The 500 litre unit is supplied with a rigid hard foam insulation. All other capacities are supplied with a soft fleece insulation.

[View Performance Data](#)

To view the performance data, please click above:

Full Range



Single Coil

Stainless steel single coil. Available in a range of 5 models from 500-2000 litres.



Twin Coil

Stainless steel twin coil. Available in a range of 5 models from 500-2000 litres.



Storage Vessel

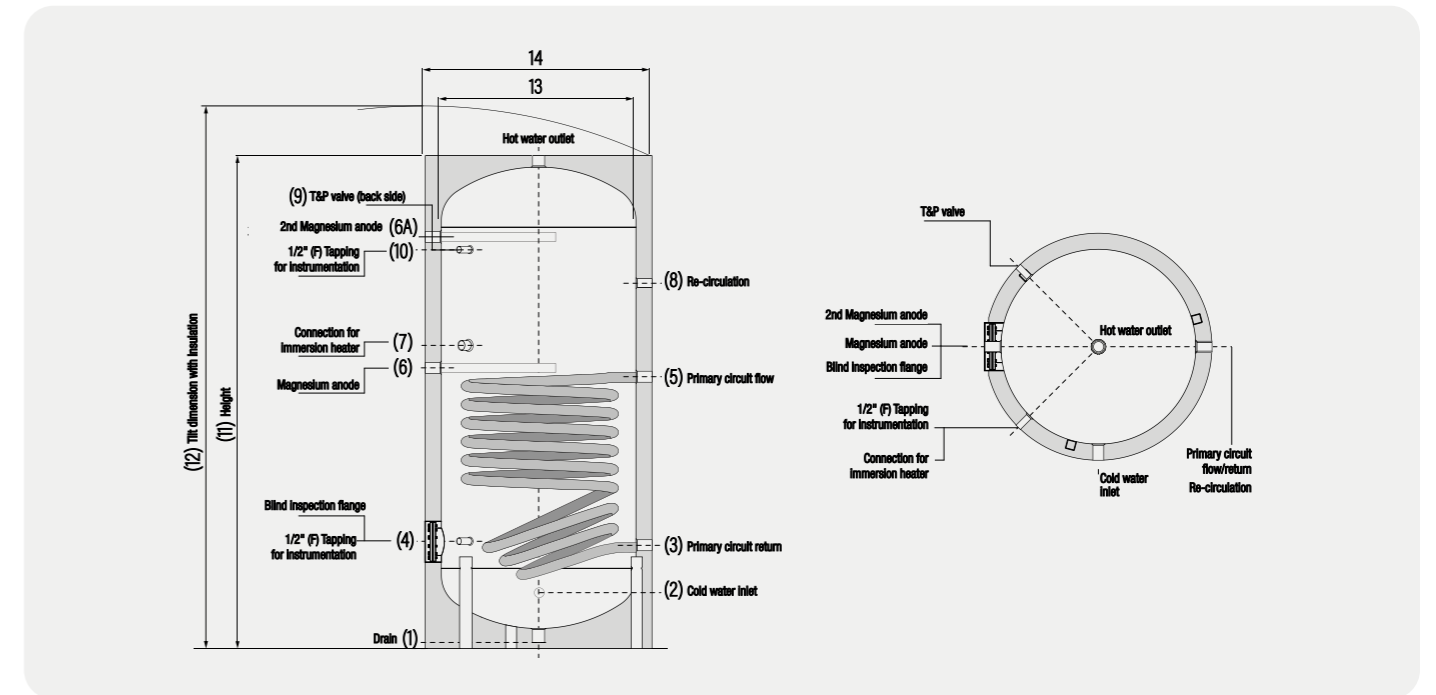
Stainless steel storage vessel. Available in a range of 7 models from 500-3000 litres.

[View Full Range](#)

To view the full Juniper SS range, including the Twin Coil or Storage Vessel, please click above:

Dimensions

All dimensions are distances from the floor, except for 13 & 14 which are lateral dimensions.



Model	1	2	3	4	5	6	6A	7	8	9	10	11	12	13	14
	(mm)														
500	71	271	356	411	1046	1086	-	1154	1341	1496	1496	1796	1955	-	750
800	114	323	423	478	998	1043	1533	1113	1331	1533	1533	1943	2195	790	1010
1000	112	317	412	477	1256	1282	1792	1337	1557	1792	1792	2192	2425	800	1020
1500	112	327	452	497	1227	1242	1762	1302	1542	1762	1762	2197	2540	1000	1260
2000	85	350	475	520	1035	1065	1575	1160	1390	1575	1575	2070	2570	1250	1510

	500	800	1000	1500	2000
Drain	½"	¾"			1"
Cold water inlet		1"			2"
Blind inspection flange (internal/external)		øi120/øe180		øi170/øe240	
Connection for immersion heater	1½"			2"	
Primary circuit return/flow				1¼"	
Re-circulation		1"			2"
T&P valve				1"	
Domestic hot water outlet	1"		1¼"		2"
Connection for lower magnesium anode				1¼"	
Connection for upper magnesium anode	-			1¼"	

Optional immersion heater

Model	Volume of water heated by the electric immersion heater litres	SINGLE PHASE			THREE PHASE		
		1.5kW JELEM-01	2kW JELEM-02	3kW ELEM-03	6kW ELEM-06	9kW ELEM-09	12kW ELEM-12
Heat up time from 10°C to 45°C with immersion heater minutes							
500	150	269	202	135	67	41	-
800	279	500	375	250	125	83	63
1000	381	682	511	341	170	114	85
1500	640	1147	860	573	287	191	143
2000	919	1646	1235	823	412	274	206

Modutherm Limited
Unit 4 Genesis
Endeavour Drive
Basildon, SS14 3WF

modutherm.co.uk
Tel: 0345 521 5666
modutherm@modularhg.co.uk

Your local contact is:

